

# 14C7

## Sharp-Cutoff Pentode

### GENERAL DATA

#### Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC) . . . . . 12.6<sup>▲</sup> volts  
Current at 12.6 volts . . . . . 0.15<sup>●</sup> amp

Direct Interelectrode Capacitances:★

Grid No.1 to plate. . . . . 0.007 max.  $\mu$ f  
Grid No.1 to cathode, grid No.3,  
grid No.2, internal shield, and  
heater. . . . . 6  $\mu$ f  
Plate to cathode, grid No.3,  
grid No.2, internal shield, and  
heater. . . . . 6.5  $\mu$ f

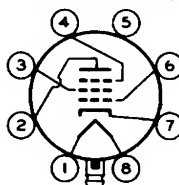
#### Characteristics, Class A<sub>1</sub> Amplifier:

Plate Supply Voltage. . . . . 100 250 volts  
Grid No.3 . . . . . *Connected to cathode at socket*  
Internal Shield . . . . . *Connected to cathode at socket*  
Grid-No.2 Supply Voltage. . . . . 100 100 volts  
Grid-No.1 Supply Voltage. . . . . -1 -3 volts  
Cathode Resistor. . . . . 130 100 ohms  
Plate Resistance (Approx.). . . . . 0.325  $\diamond$  megohm  
Transconductance. . . . . 2275 1575  $\mu$ hos  
Plate Current . . . . . 5.7 2.2 ma  
Grid No.2 Current . . . . . 1.8 0.7 ma  
Grid-No.1 Voltage (Approx.) for  
cathode-current cutoff. . . . . -7 -7 volts

#### Mechanical:

Operating Position. . . . . Any  
Maximum Overall Length. . . . . 2-25/32"  
Maximum Seated Length. . . . . 2-1/4"  
Maximum Diameter. . . . . 1-3/16"  
Dimensional Outline . . . . . See *General Section*  
Bulb. . . . . T9  
Base. . . . . Lock-in 8-Pin (JEDEC No.D8-1)  
Basing Designation for BOTTOM VIEW. . . . . .8V

Pin 1 - Heater  
Pin 2 - Plate  
Pin 3 - Grid No.2  
Pin 4 - Grid No.3  
Pin 5 - Internal  
Shield



Pin 6 - Grid No.1  
Pin 7 - Cathode  
Pin 8 - Heater  
Plug - Base  
Shell

### AMPLIFIER — Class A<sub>1</sub>

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE . . . . . 300 max. volts  
GRID No.3 (SUPPRESSOR GRID) . . . *Connect to cathode at socket*  
GRID-No.2 (SCREEN-GRID) SUPPLY  
VOLTAGE . . . . . 300 max. volts



RADIO CORPORATION OF AMERICA  
Electron Tube Division  
Harrison, N. J.

DATA  
1-61

# 14C7

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GRID-No.2 VOLTAGE. . . . . 100 max. volts  
GRID-No.1 (CONTROL-GRID) VOLTAGE:  
Positive-bias value. . . . . 0 max. volts  
GRID-No.2 INPUT. . . . . 0.1 max. watt  
PLATE DISSIPATION. . . . . 1 max. watt  
PEAK HEATER-CATHODE VOLTAGE:  
Heater negative with respect to cathode. . 90 max. volts  
Heater positive with respect to cathode. . 90 max. volts

- ▲ Nominal voltage = 14 volts.
- Nominal current = 0.16 ampere.
- ★ With external shield JEDEC No.308 connected to cathode.
- ◆ Greater than 1 megohm.

# 14F7

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## High-Mu Twin Triode

*The 14F7 is the same as the 7F7 except for the following items:*

Heater, for Unipotential Cathodes:

Voltage (AC or DC) . . . . . 12.6<sup>▲</sup> volts  
Current at 12.6 volts. . . . . 0.15<sup>●</sup> amp

# 14F8

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## Medium-Mu Twin Triode

*The 14F8 is the same as the 7F8 except for the following items:*

Heater, for Unipotential Cathodes:

Voltage (AC or DC) . . . . . 12.6<sup>▲</sup> volts  
Current at 12.6 volts. . . . . 0.15<sup>●</sup> amp

- ▲ Nominal voltage = 14 volts.
- Nominal current = 0.16 ampere.

